

IN THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

1. (original) An isolated polynucleotide comprising a nucleotide sequence encoding a first polypeptide that has at least 90% identity based on Clustal method of alignment compared to a polypeptide selected from the group consisting of a corn ammonium transporter polypeptide of SEQ ID NO:2, a soybean ammonium transporter polypeptide of SEQ ID NO:4, a wheat ammonium transporter polypeptide of SEQ ID NO:6, a corn ammonium transporter of SEQ ID NO:8, a rice ammonium transporter SEQ ID NO:10, a soybean ammonium transporter of SEQ ID NO:12 and wheat ammonium transporter of SEQ ID NO:14.

2-10. (canceled)

11. (new) An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having ammonium transporter activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:6 have at least 90% sequence identity based on the Clustal alignment method, or

(b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

12. (new) The polynucleotide of Claim 11 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:6 have at least 95% sequence identity based on the Clustal alignment method.

13. (new) The polynucleotide of Claim 11 wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:6.

14. (new) The polynucleotide of claim 11 wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:5.

15. (new) A vector comprising the polynucleotide of Claim 11.

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16. (new) A recombinant DNA construct comprising the polynucleotide of Claim 11 operably linked to a regulatory sequence.

17. (new) A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 11.

18. (new) A cell comprising the recombinant DNA construct of Claim 16.

19. (new) A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 11 and regenerating a plant from the transformed plant cell.

20. (new) A plant comprising the recombinant DNA construct of Claim 16.

21. (new) A seed comprising the recombinant DNA construct of Claim 16.